

## ECOSYSTEM STATUS INDICATORS

*Marine Mammals*

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## SUMMARY OF INFORMATION ON ALASKA MARINE MAMMAL STOCKS

Table 23. This summary table of Alaska marine mammal stocks includes estimates of fishery mortality and native subsistence harvest levels up through 2004. Fishery mortality is expressed as an annual average for the time period 1998-2003.

Species	Stock	N (est)	CV	C.F.	CV C.F.	Comb. CV	N(min)	0.5 Rmax	F(r)	PBR	Fishery mort.	Subsist mort.	Status
Baird's beaked whale	Alaska	n/a					n/a	0.02	0.5	n/a	0		NS
Bearded seal	Alaska	n/a					n/a	0.06	0.5	n/a	2	6,788	NS
Beluga whale	Beaufort Sea	39,258	0.229	2	n/a	0.229	32,453	0.02	0.5	324	0	162	NS
Beluga whale	E. Chukchi Sea	3,710	n/a	3.09	n/a	n/a	3,710	0.02	1.0	74	0	65	NS
Beluga whale	E. Bering Sea	18,142	0.24	3.09	n/a	0.24	14,898	0.02	1.0	298	0	209	NS
Beluga whale	Bristol Bay	1,888	n/a	3.09	n/a	0.2	1,619	0.02	1.0	32	0.5	19	NS
Beluga whale	Cook Inlet	357	0.107			0.107	326	0.02	0.3	2	0	1	S
Bowhead whale	W. Arctic	10,545	0.128			0.128	9,472	0.02	0.5	95	0.2	41	S
Cuvier's beaked whale	Alaska	n/a					n/a	0.02	0.5	n/a	0	0	NS
Dall's porpoise	Alaska	83,400	0.097			0.097	76,874	0.02	1.0	1,537	37.5	0	NS
Fin whale	NE Pacific	5703	0.2				5,703	0.02	0.1	11.4	0.6	0	S
Gray whale	E. N. Pacific	18,813	0.069			0.069	17,752	0.0235	1.0	442	7.4	122	NS
Harbor porpoise	SE Alaska	10,947	0.242	1.56*	0.108 <sup>+</sup>	0.274	8,954	0.02	0.5	90	3*	0	NS
Harbor porpoise	Gulf of Alaska	30,506	0.214	1.37 <sup>+</sup>	0.066 <sup>+</sup>	0.304	25,536	0.02	0.5	255	40.3	0	NS
Harbor porpoise	Bering Sea	47,356	0.223	1.337 <sup>+</sup>	0.062 <sup>+</sup>	0.3	39,328	0.02	0.5	393	2	0	NS
Harbor seal	SE Alaska	37,450	0.026	1.74	0.068	0.073	35,226	0.06	1.0	2,114	36	1,749	NS
Harbor seal	Gulf of Alaska	29,175	0.023	1.5	0.047	0.052	28,917	0.06	0.5	868	36	791	NS
Harbor seal	Bering Sea	13,312	0.062	1.5	0.047		12,648	0.06	0.5	379	31	161	NS
Humpback whale	W. N. Pacific	394	0.084			0.084	367	0.035	0.1	1.3	0.69	0	S
Humpback whale	Cent.N. Pacific	4,005	0.095			0.095	3,698	0.035	0.1	12.9	4.2	0	S
Humpback whale	CNP-SEAK feeding area	961	0.12			0.12	868	0.035	0.1	3	2.7	0	S
Killer whale	AK resident	1123	n/a				1,123	0.02	0.5	11.2	2.5	0	NS
Killer whale	N resident (BC)	216	n/a				216	0.02	0.5	0	0	0	NS
Killer whale	S resident (BC)	83	n/a				83	0.02	0.5	0.8	0	0	S
Killer whale	AT1 transient	8	n/a				8	0.02	0.5	0	0	0	S
Killer whale	GOA, AI, BS transient	314	n/a				314	0.02	0.5	2.5	0	0	NS
Killer whale	West Coast transient	314	n/a				314	0.02	0.5	0	0	0	NS
Minke whale	Alaska	n/a					n/a	0.02	0.5	n/a	0	0	NS
North Pacific right whale	E. N. Pacific	n/a					n/a	0.02	0.1	n/a	0	0	S
Northern fur seal	E. North Pacific	688,028		4.475	n/a	0.2	676,540	0.043	0.5	14,546	15	869	S
Pacific white-sided dolphin	Cent.N. Pacific	26,880					26,880	0.02	0.5	n/a	4	0	NS
Ribbon seal	Alaska	n/a					n/a	0.06	0.5	n/a	1	193	NS
Ringed seal	Alaska	n/a					n/a	0.06	0.5	n/a	0.71	9,567	NS
Sperm whale	N. Pacific	n/a					n/a	0.02	0.1	n/a	0.45	0	S
Spotted seal	Alaska	n/a					n/a	0.06	0.5	n/a	2	5,265	NS
Stejneger's beaked whale	Alaska	n/a					n/a	0.02	0.5	n/a	0	0	NS
Steller sea lion	E. U. S.	44,996					43,728	0.06	0.8	1,967	5.12	4	S
Steller sea lion	W.U. S.	38,513					38,513	0.06	0.1	231	30.7	188	S

C.F. = correction factor; CV C.F. = CV of correction factor; Comb. CV = combined CV; Status: S=Strategic, NS=Not Strategic, n/a = not available.

\* = No or minimal reported take by fishery observers; however, observer coverage was minimal or nonexistent.

+ = There are two correction factors involved in the estimation of harbor porpoise abundance. One factor is 2.96 (CV = 0.18), which corrects for availability bias, and is used for all three estimates for Alaska harbor porpoise stocks following Laake et al. (1997). The correction factor included in this table corrects for animals missed on the trackline. Because this number differed for different stocks, the factor is included in the summary table.